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the one or more reaction cassettes, the one or more reagent packs and the one or more gaskets, a plurality of the channels being in communication with one another to ensure fluid transfer;
wherein the control logic comprises a computer readable program which controls fluid transfer between the one or more reaction cassettes and the one or more reagent packs,
and wherein the modular reaction system is configured to be releasably coupled to a computer-assisted backplane control system.

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